

#### ABSTRACT OF THE DISCLOSURE

Apparatus and methods of isolating functionalizing reagents and unreacted bioreactive material in an array of microscopic sense site wells in a substrate surface and to scrub clean the sense site substrate surface. The disclosed apparatus and methods improve systems for detecting biochemical reactions to any of a variety of microarray probe materials by a variety of techniques including, but not limited to, electrical, fluorescent, colorimetric, or enzymatic detection.